PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 1.8 JUL 2005

	 							
	icant's or agent's file reference	FOR FURTHER A	CTION	See Form PCT/IPEA/416				
International application No. PCT/GB2004/001227		International filing date 22.03.2004	(day/month/year)	Priority date (day/month/year) 28.03.2003				
Inter	International Patent Classification (IPC) or national classification and IPC							
C09D125/14, C09D133/06, C09D175/04, C09D167/06, C08K3/22								
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	Applicant PAGETTO BAG							
DSM IP ASSETS B.V. et al.								
1.	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.							
3.	This report is also accompanied by ANNEXES, comprising:							
	a. sent to the applicant and to	o the International Bure	eau) a total of sheets, a	as follows:				
	sheets of the descripti	on, claims and/or drawi	ngs which have been a	mended and are the basis of this report				
	and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the							
	Supplemental Box.							
1	b. \(\sum \) (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a							
	sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
<u></u>								
4.	This report contains indications relating to the following items:							
	☑ Box No. I Basis of the opin	nion						
1	☐ Box No. II Priority							
İ	☐ Box No. III Non-establishm	ent of opinion with rega	ard to novelty, inventive	step and industrial applicability				
	☐ Box No. IV Lack of unity of	invention		•				
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	☐ Box No. VI Certain docume	ents cited	· -					
1	☑ Box No. VII Certain defects	in the international app	lication					
	☑ Box No. VIII Certain observa							
Date	of submission of the demand		Date of completion of th	ls report				
24.12.2004			19.07.2005					
			10.07.2005					
Name and malling address of the international preliminary examining authority:			Authorized Officer	auther Paterra				
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International application No. PCT/GB2004/001227

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	Box	No. I	Basis of the re	oort		
1.	With regard to the language , this report is based on the international application in the language in which it filed, unless otherwise indicated under this item.					
		which inte	is the language of ernational search (plication of the inte	a translation furnished under Rules 12.3 and rnational application ((23.1(b))	
2.	nave	With regard to the elements* of the international application, this report is based on <i>(replacement sheets which</i> have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	Desc	ription	, Pages			
	1-39			as originally filed		
	Clain	ns, Nur	mbers			
	1-26		as originally filed			
		a sequ	ence listing and/o	r any related table(s) -	see Supplemental Box Relating to Sequence Listing	
3.)]]	☐ the ☐ the ☐ the ☐ the	description, page claims, Nos. drawings, sheets, sequence listing	figs <i>'specify)</i> :		
4.	□ ·	This re	port has been est on made, since th	ey have been consider	f) the amendments annexed to this report and listed below red to go beyond the disclosure as filed, as indicated in the	
	Supp [[[the the the the the any	description, page claims, Nos. drawings, sheets, sequence listing a table(s) related to	s(c)). s figs (<i>specify)</i> : o sequence listing <i>(spe</i>	ecify):	
	*]	If ite	em 4 applies,	some or all of t	these sheets may be marked "superseded."	

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-26

Inventive step (IS)

Yes: Claims

No: Claims

1-26

Industrial applicability (IA)

Yes: Claims No: Claims

Claims 1-26

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1 = WO-A-02/33013

D2 = WO-A-02/32982

2. Documents D1-D2 disclose (see search report) compositions, coatings, methods and substrates that are indistinguishable from the subject-matter of claims 1-26.

It follows that the subject-matter of claims 1-26 is not novel in view of D1-D2 (Art. 33(2) PCT).

- 2.1 An argument in the sense that the thickener used in D1 (or in D2) "is a pseudoplastic thickener and thus not according to present claim 1" cannot be followed, since the present application states at page 21, lines 25-29 that "Thickeners that exhibit a reduced viscosity as shear increases are known as pseudoplastic or shear thinning thickeners. (...) Thixotropic thickeners are shear thinning, however when the shear stress is removed the initial viscosity is only restored over a period of time", thus the definition of component e) in claim 1 is left dependant on an undefined period of time.
- 2.2 An argument in the sense that "the oil-absorption of the TiO_2 used in D1 (or in D2) is not given" is correct; however, this implies that the file does not contain evidence showing that the TiO_2 used in D1-D2 is different from component c) in present claim 1.
- 2.3 Objections under Item VIII should be noted.
- 3. The subject-matter of claims 1-26 is not inventive (Art. 33(3) PCT).
- 3.1 Being not novel, the subject-matter of claims 1-26 cannot be considered as inventive (Art. 33(3) PCT).
- 3.1 The file does not contain fair comparative examples vis-à-vis the closest prior art documents D1-D2.

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In Example 1, 23,6 g of component 7 and 5 g of component 10 are used. However, in Comparative Example 1A the same amount of component 7 but only 1,7 g of component 9 are used, and in Comparative Example 1B a lower amount of component 8 and only 1,4 g of component 9 are used.

Several differences as to amounts ans types of components can be seen also when comparing Example 2 vs. CEx 2 and Example 3 vs. CEx. 3.

Therefore, a technical effect in view of the closest prior art D1-D2 is not shown in the application.

Re Item VII

Certain defects in the international application

1. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

Re Item VIII

Certain observations on the international application

- 1. Components a) and b) are defined in claim 1 in general terms that cover a broad range of polymers, including undisclosed components for which there is no basis in the application as filed. Additionally, this broad definition does not exclude the possibility of both components being simply one and the same (expressions **crosslinkable water-dispersible oligomer** and **dispersed polymer**; description pages 7 and 16-17) (Art. 6 PCT).
- 2. The functional definition in claims 1 and 16-17 for components d) and e) lack a precise meaning in the art (description page 22, lines 15-23 and, resp., page 21, lines 25-31); additionally, the functional definitions appear to include undisclosed components for which there is no basis in the application as filed (Art. 6 PCT).
- 3. The expressions **soft part** and **hard part** in claim 12 lack a precise meaning in the art and appear to include undefined components for which there is no basis in the application as filed (eg., is not clear whether they refer to block vinyl polymers having different soft/hard blocks, or to grafted vinyl polymers in which the grafted and the grafting parts are hard/soft parts respectively, or to mixtures of a hard and a soft

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D-11 . -

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polymer, etc.). Thus the expressions are imprecise and unclear (Art. 6 PCT).

4. The expressions oil absorption number, soluble in water, water absorption number and tack-free time, used in the claims should be clarified by including a method for their calculation (Art. 6 PCT).